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DATE MAILED: 03/09/2009

#### NOTICE OF ALLOWANCE AND FEE(S) DUE

23838 7590 03/09/2009 KENYON & KENYON LLP

1500 K STREET N.W. SUITE 700 WASHINGTON DC 20005

EXAMINER					
STRIEB, MICHAEL A					
ART UNIT	PAPER NUMBER				
2862	•				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,830	12/06/2005	Hiroyuki Minakata	12219/85	8198

 ${\tt TITLE\ OF\ INVENTION: VARIABLE-POWER\ OPTICAL\ SYSTEM\ AND\ ELECTRONIC\ DEVICE\ USING\ SAME}$ 

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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WASHINGTON	I, DC 20005						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/559,830	12/06/2005	•	Hiroyuki Minakata			12219/85	8198
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	06/09/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
STRIEB, M		2862	396-439000				
1. Change of correspondence address or indication of "Fee Address" (3 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTOSB/122) attached.  "Fee Address" indication for "Fee Address" Indication form PTOSB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			(I) the names of up to 3 registered patent attorneys or agents OR, alternatively.  (2) the name of a single firm (having as a member a				
PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Com GNEE	ified below, no assignee sletion of this form is NO	(B) RESIDENCE: (CITY	atent. If an assigna assignment. and STATE OR C	OUNT	'RY)	ocument has been filed for
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	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regi	stered.	attorney or agent; or th	ne assignee or other party in
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23838 75	590 03/09/2009		EXAM	IINER
KENYON & KENYON LLP		STRIEB, MICHAEL A		
1500 K STREET I	N.W.		ART UNIT	PAPER NUMBER
SUITE 700 WASHINGTON, I	DC 20005		2862	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 87 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 87 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

### Application No. Applicant(s) 10/559.830 MINAKATA ET AL. Notice of Allowability Examiner Art Unit MICHAEL A STRIER 2862 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to Applicant's amendment filed February 2, 2009. The allowed claim(s) is/are 31,37,39 and 40. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) X All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. \( \overline{\text{Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance

/MICHAEL A. STRIEB/ Examiner, Art Unit 2862

of Biological Material

9. ☐ Other .

Application/Control Number: 10/559,830

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## DETAILED ACTION

#### Response to Amendment

 Applicant's amendment filed on February 2, 2009 has been entered. Claims 31, 37, and 39-40 are still pending in this application, with claims 31, 37, 39 and 40 being independent. Claims 1-30, 32-36, and 38 have been cancelled.

#### Allowable Subject Matter

Claims 31, 37, and 39-40 are allowed.

Regarding claim 31, Takahashi et al (US 4,690,513) disclose a zoom optical system comprising, in order from an object side thereof, a first lens group having positive refracting power, a second lens group having negative refracting power, a third lens group having positive refracting power, and a fourth lens group having positive refracting power (column 1, lines 64-67), wherein said second lens group or said fourth lens group includes at least one one-piece lens (column 2, lines 44-51).

Marvin et al (US 2,908,209) disclose wherein at least one lens is formed by molding of a first lens blank that provides a surface including at least an optical function surface after molding, and a second lens blank that provides a surface other than said surface including at least an optical function surface after molding, wherein the first lens blank and the second lens blank are integrated into a one-piece lens (column 4, lines 2-16).

However, the prior art does not disclose wherein at least one positive lens is positioned in said second lens group and satisfies the following condition:

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0.1<HH2/Φ2<15

where HH2 is a principal point spacing (mm) of the positive lens in the second lens group and  $\Phi$ 2 is a refracting power of the positive lens in the second lens group.

Regarding claim 37, Takahashi et al discloses a zoom optical system comprising, in order from an object side thereof, a first lens group having positive refracting power, a second lens group having negative refracting power, a third lens group having positive refracting power, and a fourth lens group having positive refracting power.

Marvin et al disclose wherein at least one lens is formed by molding of a first lens blank that provides a surface including at least an optical function surface after molding, and a second lens blank that provides a surface other than said surface including at least an optical function surface after molding, wherein the first lens blank and the second lens blank are integrated into a one-piece lens (column 4, lines 2-16).

However, the prior art does not disclose at least one positive lens positioned in said first lens group that satisfies the following condition:

0.1<HH1/  $\Phi$ 1<20

where HH1 is a principal point spacing (mm) of the positive lens in the first lens group and  $\Phi$ 1 is a refracting power of the positive lens in the first lens group.

Regarding **claim 39**, Takahashi et al discloses a zoom optical system comprising, in order from an object side thereof, a first lens group having positive refracting power, a second lens group having negative refracting power, a third lens

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group having positive refracting power, and a fourth lens group having positive refracting power.

Marvin et al disclose wherein at least one lens is formed by molding of a first lens blank that provides a surface including at least an optical function surface after molding, and a second lens blank that provides a surface other than said surface including at least an optical function surface after molding, wherein the first lens blank and the second lens blank are integrated into a one-piece lens (column 4, lines 2-16).

However, the prior art does not disclose at least one positive lens positioned in said third lens group that satisfies the following condition:

0.1<HH3/ Ф3<8

where HH3 is a principal point spacing (mm) of the positive lens in the third lens group and  $\Phi$ 3 is a refracting power of the positive lens in the third lens group.

Regarding claim 40, Takahashi et al discloses a zoom optical system comprising, in order from an object side thereof, a first lens group having positive refracting power, a second lens group having negative refracting power, a third lens group having positive refracting power, and a fourth lens group having positive refracting power.

Marvin et al disclose wherein at least one lens is formed by molding of a first lens blank that provides a surface including at least an optical function surface after molding, and a second lens blank that provides a surface other than said surface including at least an optical function surface after molding, wherein the first lens blank and the second lens blank are integrated into a one-piece lens (column 4, lines 2-16).

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However, the prior art does not disclose at least one positive lens positioned in said fourth lens group that satisfies the following condition:

0.1<HH4/ Φ4<8

where HH4 is a principal point spacing (mm) of the positive lens in the fourth lens group and  $\Phi$ 4 is a refracting power of the positive lens in the fourth lens group.

#### Conclusion

3. Any response to this office action should be faxed to (571) 273-8300 or mailed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Hand - delivered responses should be brought to:

Customer Service Window Randolph Building 401 Dulany Street

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL A. STRIEB whose telephone number is (571)270-3528. The examiner can normally be reached on Monday-Friday 8am-5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Assouad can be reached on (571) 272-2210. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/William B. Perkey/ for Patrick Assouad, SPE of Art Unit 2862

MAS